

Building a Sustainable Healthy Homes Program



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Coalition to End Childhood Lead Poisoning

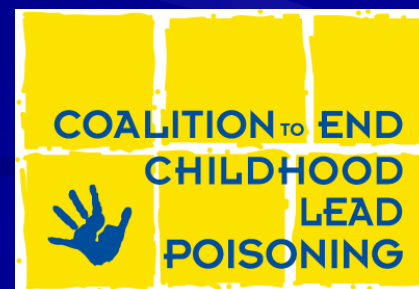
About the Coalition

Mission

To end childhood lead poisoning and create Healthy Homes so that every child may grow up to reach his or her full potential.

Vision

To break the link between unhealthy housing and unhealthy children.



Agenda

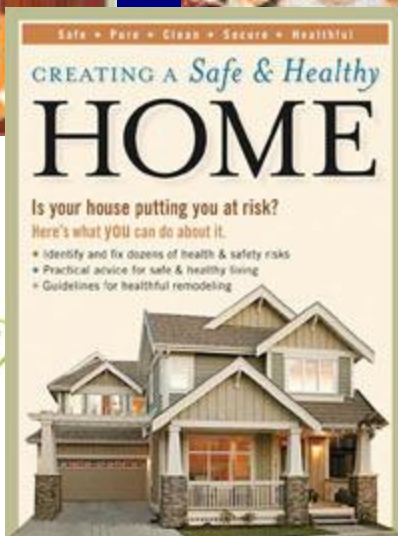
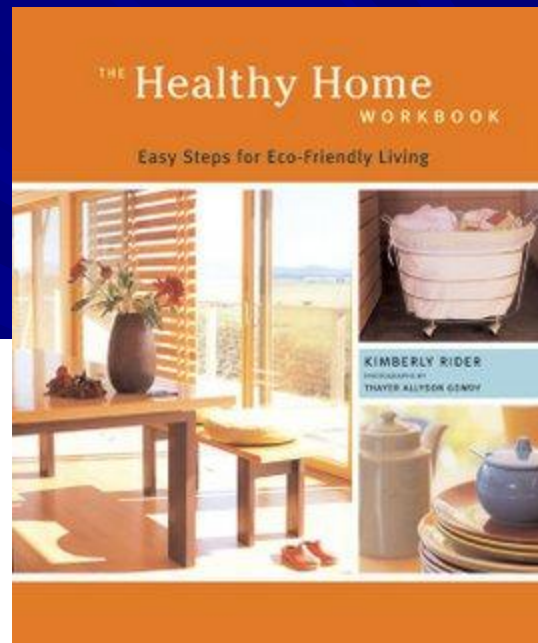
- Launch a Healthy Homes Program
 - How to design, implement, sustain
 - Create An Asset map and Strategic Plan
 - Measure Results/Impact
 - Benchmarks for accountability
 - Leverage Available Funds
- Moving Forward
- Best Practices/Resources





Healthy Homes

■ What does “Healthy Homes” really mean?



Is A Happy Home

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good things

FOR A HEALTHY HOME




We have smart ideas for every room.


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- ❖ The Safest Ways to Prepare, Serve, and Store Food
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Healthy Home

Going Green Day 1




[Next: Going Green](#)

Healthy Homes – Definition

We all have one...

A healthy home is one that is marked not only by the absence of health and safety threats (lead, indoor allergens, radon, carbon monoxide) in the built environment, but also one that nourishes physical, mental, social and environmental well-being.

*- Coalition Report to
The Annie E. Casey Foundation December 2007*

And More..

A Healthy Home initiative should achieve multiple goals:

- 1. A home free of environmental health hazards*
- 2. Improved Energy Efficiency*
- 3. Affordable to maintain*
- 4.. Enhance Stability and more stable neighborhoods;*
- 5. Provide employment and training for workers in the impacted communities*
- 6. Engage Healthy Behaviors and Outcomes**

Healthy Homes – The Elements (But Communities Must Define)



- Clean
- Dry
- Vented
- Toxic free
- Structurally safe

Strategies

- Map the Assets
- What Policy or Legislative Changes are needed?
- What is the overarching goal?
- Key Benchmarks in rolling out coordinated plan
- Structural vs. behavioral
 - Interventions/Resources
 - Education
 - Engagement
 - Enforcement

Engage your partners early and often

- Health care providers
- Housing inspectors
- Fire inspectors
- Social service workers
- Utility Company Meter Readers
- Faith-based organizations
- Foster Care
- Child Care
- And of course.....Families themselves

Build your project

- Engage Assets/ Plan on Gap Fillers
- Develop seamless partnerships (common forms)
 - Code enforcement
 - Sanitarians
 - Community groups
- Flexibility on Approach
- Understand Needs of Clientele/Community (focus groups – and advisory panels)
- Selecting Target Areas
- Targeted Client Enrollment
- Period for Evaluation



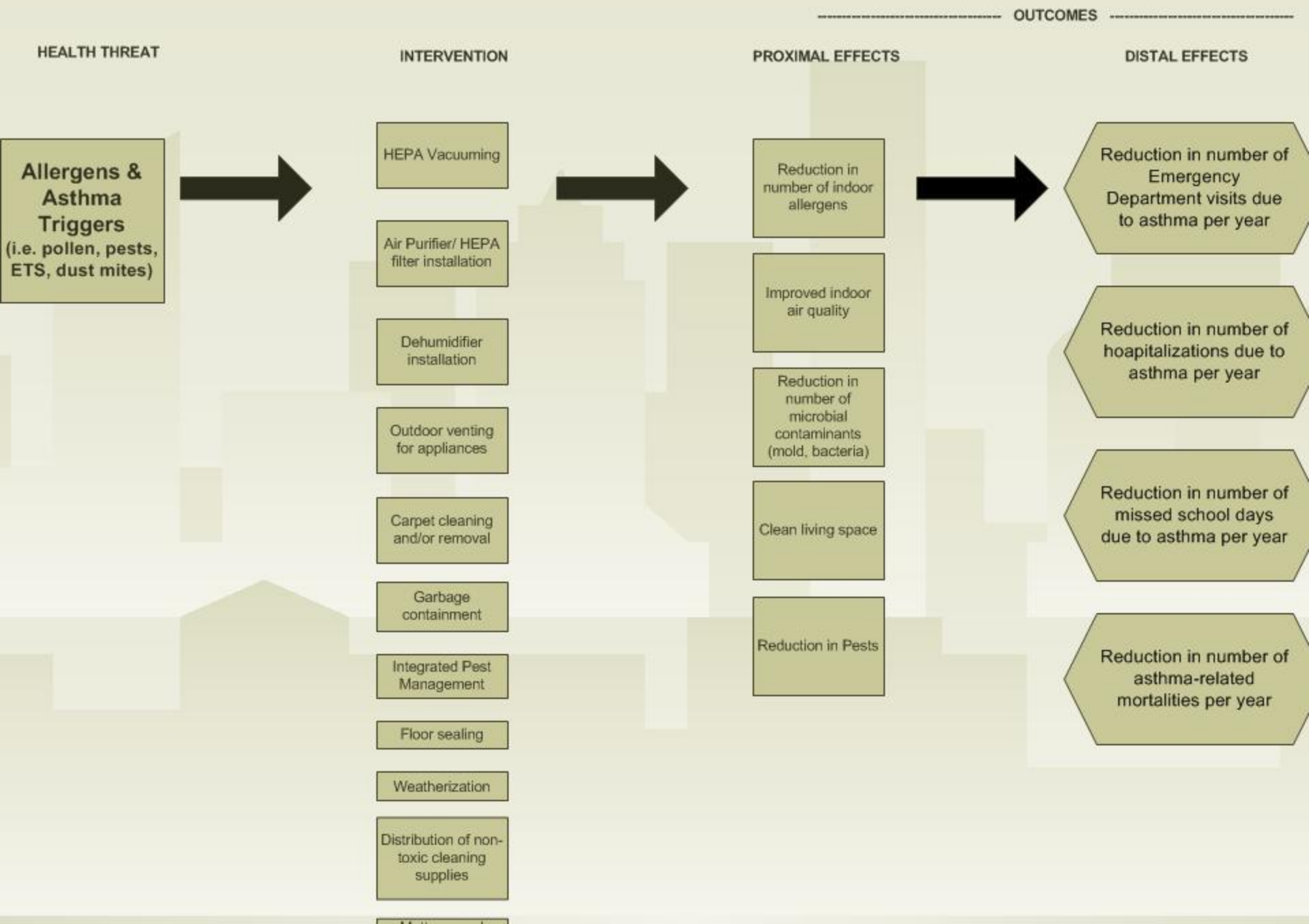
Interventions – We all know them

- Lead Hazard Control
- Air Quality
 - CO, Radon, Tobacco
- Mold/moisture control
- Integrated Pest Mgmt
- Injury prevention
- And the ones that you need in your City...

Measuring Results

- Establish defined set of interventions
- Establish clear, measurable outputs
- Establish clear, measurable outcomes
- Some long term benefits cannot be measured easily but try!





HEALTH THREAT

INTERVENTION

PROXIMAL EFFECTS

DISTAL EFFECTS

**Lead (Pb)
Based
Paint**



HEPA Vacuuming

Lead-Safe repairs
of chipping,
peeling, flaking
paint

Distribution of non-
toxic cleaning
supplies
(Cleaning Kits)

Regular and
effective cleaning

Federal and State
housing code
enforcement
(i.e. MD HB 1020)

Soil testing and
remediation

Examination of
toys and additional
possible sources
in the home (i.e.
pottery, costume
jewelry)

Water filter
installation



Lead-Safe
environment

Clean living space

Lead-Safe water

Safe toys



Reduction in number
of children with
Elevated Blood Lead
Levels (EBL)

Reduction in mean
EBL level

HEALTH THREAT

INTERVENTION

PROXIMAL EFFECTS

DISTAL EFFECTS

**Mold,
Moisture &
Mildew**



Weatherization

Dehumidifier and
Air Conditioner
installation

Outdoor venting
for appliances
(including kitchen
and dryer)

Outdoor venting
and fan
installation in
bathroom

Floor sealing

Cleaning and/or
removal of molded
carpet

HEPA Vacuuming

Air purifier
installation

Environmentally
safe mold
remediation



Dry built
environment

Clean living space

Humidity levels
between 30-60%

Improved indoor
air quality

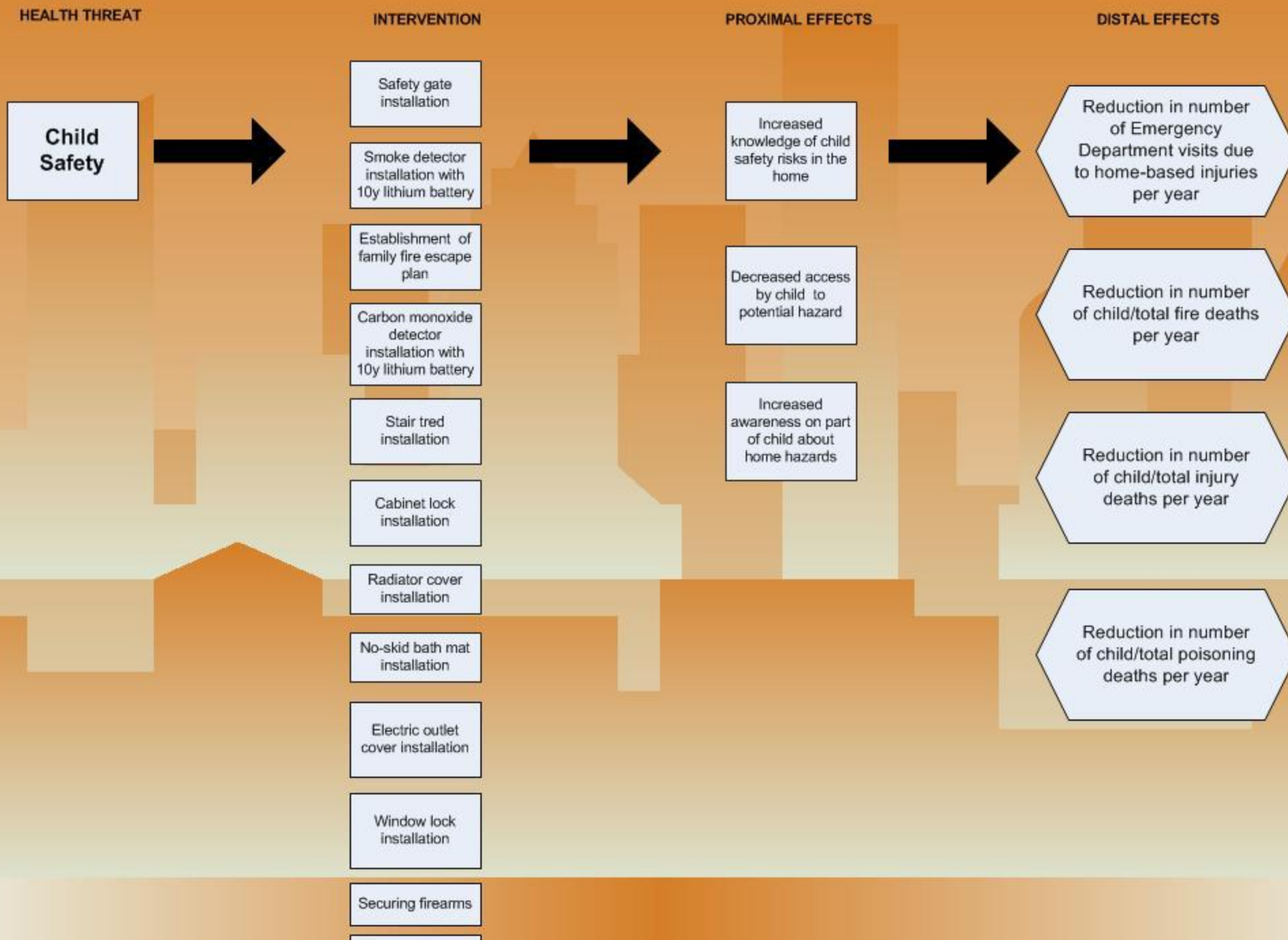
Reduction in
number of roaches
and other pests
that thrive in moist
environments

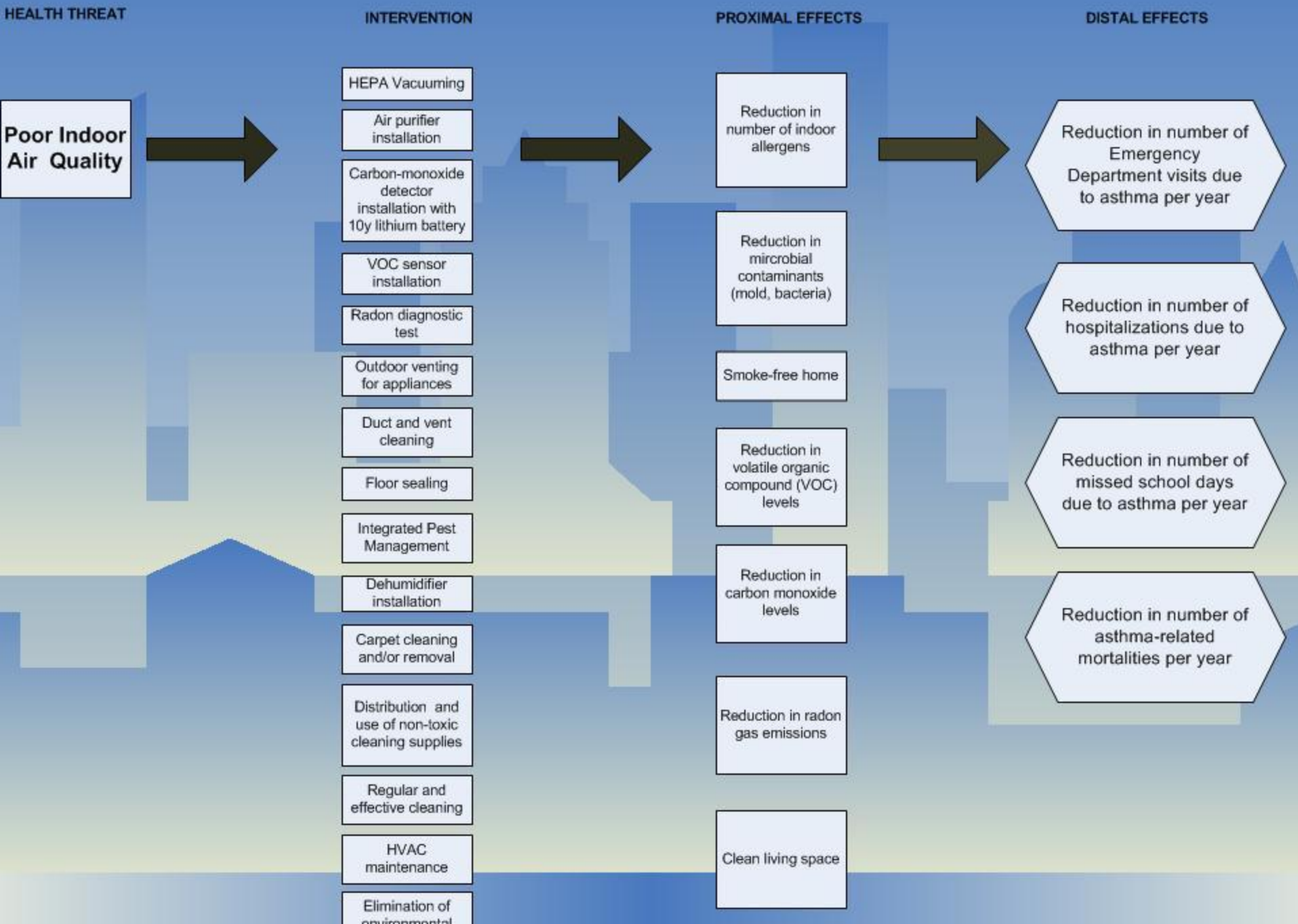


Reduction in visible
mold and mildew

Reduction in number of
allergens in the home

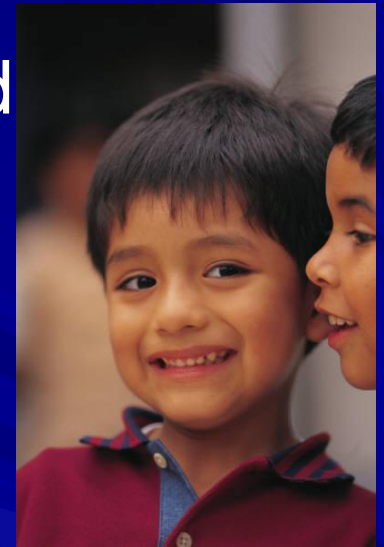
Reduction in number of
asthma attacks





Healthy Homes - Benefits

- Healthy Children Become Productive Adults
- Improved School Readiness
- Improved School Performance/ Attend
- Increased Property Values
- Reduced Special Education Costs
- Reduced Juvenile Crime/Delinquency
- Reduced Health Care Costs
- Reduced Childhood Injury
- Creation of Sustainable Green Jobs



Available Funds

- HUD (HealthyHomes CDBG, CSBG, NSP, IPM via Public Housing), CDC/HHS, EPA (Indoor Air)
- *State, Local*
- *Workforce Development*
- *Hometown Philanthropy*
- *Fee for Service*

Traditional Sources of Funds

- HUD
- EPA
- CDC
- Create leverage for state/local funds

Philanthropy

Entrepreneurship



The Healthy Home Stimulus!

- Neighborhood stabilization
 - address home foreclosure and abandonment and for the provision of capacity building and support
- Public Housing
 - investments that leverage private sector funding or financing for renovations and energy conservation
- Community Health Centers
 - primary health services and additional health services to a population that is medically underserved

The Healthy Home Stimulus

- Capacity Building for 501c3s
 - social services to individuals and communities... must have clear and measurable goals, and be able to evaluate the success of their program.
- Energy Efficiency/Conservation
 - reduce energy use and improve energy efficiency
- Workforce Development
 - research, labor exchange and job training projects for Green trades

Results Based Outcome Measurements

■ Testing

- Lead dust
- Dust mites

■ Inspection

- Lead Hazards
- Pests - Rodents, Roaches
- Mold
- Safety Hazards

■ Health Measures

- Blood Lead Levels
- Asthma Episodes
- Injury Prevention
- Stability

■ Other

- Third Party Evaluator
- Pre-Intervention, 1 Month, 6 Month Evaluation
- Evaluation Tools

Best Practices/Lessons Learned Sustainability/Leverage

- Housing Code Enforcement
- Family Advocate Attorneys
- Awareness – Outreach and Media
- Comprehensive Action Plan
- Interagency Cooperation
- Integrated Intervention Models
- Sustainability Commission

Plan Your Own Program

- Housing stock evaluation
- Known environmental issues
- Who has the “goods” now
- What is the climate, the culture
- Partners/resources
- Next steps
- Seek Technical Assistance



Available Resources

- www.cdc.gov/healthyplaces/healthyhomes.htm
- www.epa.gov/region1/healthyhomes
- www.hud.gov/offices/lead/hhi/index.cfm
- www.healthyhomesmd.org (leadsafe.org)
- www.uwex.edu/healthyhome
- www.nchh.org
- Local Foundations/Housing, Health Foundations
- Local environmental health programs
- Local colleges/universities
- Local hospitals/clinics

Case Studies – Demo 1

Profile

- HUD-funded 2003-2005
- \$872,000
- Target pregnant women
- Goal: create healthy home before birth
 - Education
 - In-home interventions



Case Studies – Demo 1

Results

- Exceeded Intervention Benchmark by 265%
- Intervention Highlights (2/15/03 – 9/30/05)
 - 383 Resident Educations Completed
 - 338 Environmental Assessments
 - 447 Safety Kits Installed
 - 278 IPMs Performed
 - 213 Lead Hazard Reductions Completed
 - 530 Total Healthy Homes Interventions
 - 10,131 Reached By Outreach & Education

Case Studies – Demo 2 Profile

- HUD-funded 2007-2010
- \$1,000,000
- Target asthmatic children and their families
- Goals:
 - Reduce incidences of asthma episodes
 - Reduce # of school/work days missed due to asthma
- Approach
 - Education
 - In-home interventions



Case Studies – Demo 2

Commenced March 2008

- 300 Resident Educations
- 300 Environmental Assessments
- 250 Healthy Homes Interventions
(Indoor Allergens, Mold, IPM, Lead)
- 250 Safety Kits Installed
- 120 Healthy Homes Workers Trained
- 5000 Directly Reached in Target Communities
via Outreach and Education

Questions? Need Help?

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